ProCp Use Cases

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1. Name: Starting the simulation

Description: The process of setting up the simulation and starting it by providing the required details and settings

Actors: User

Preconditions: The application should have been started up

Main success scenario:

1. The user inputs the desired information required by the simulation manually or by loading it from a previous save.
2. The user sets up the belt system layout by interacting with the GUI’s provided functionalities.
3. The system allows simulation startup.
4. The user presses the Start button.
5. The system begins the simulation.

Exceptions:

3a. Missing input details

1. The system does not allow the user to start the simulation.
2. The system displays an appropriate message.
3. The use case goes back to step 1 of MSS.

4a. The user chooses to cancel instead

1. The use case goes back to step 1 of MSS.

1. Name: Stopping the simulation

Description: The act of halting the simulation’s activity

Actors: User

Preconditions: The simulation is running

Main success scenario:

1. The user presses the Stop button.
2. The system stops the simulation and displays an appropriate message.
3. The system displays the final results of the recently run simulation.
4. Name: Saving the results of a simulation

Description: The process of saving the recently run simulation’s results to storage

Actors: User

Preconditions: A simulation has been successfully run beforehand

Main success scenario:

1. The system displays the final results of the simulation together with the option to save them.
2. The user presses the Save button.
3. The system opens up a save file dialog.
4. The user chooses the location and presses save.

Exceptions:

2a 3a. The user chooses to cancel instead

1. The use case goes back to step 1 of MSS.
2. Name: Loading in the results of a previous simulation.

Description: The process of loading the results of a previously saved simulation to be used in a new one.

Actors: User

Preconditions: A simulation has been successfully saved beforehand and the application has been started up

Main success scenario:

1. The user presses the Load button.
2. The system opens up a file dialog.
3. The user chooses the file containing the saved results.
4. The system reads the file and displays the loaded information.

Exceptions:

2a 3a. The user chooses to cancel instead

1. The use case goes back to step 1 of MSS.

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